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IDEA-0856-68

Copy 11 of 11

8 November 1968

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MEMORANDUM FOR THE RECORD

SUBJECT: Status Report, Iris II Camera

1. Introduction:

The Iris II camera is a rotating optical bar panoramic camera with a folded optical system having a focal length of 24" and an aperture of f/3.5. It uses 10,500 feet of film 5 inches wide and is capable of providing convergent stereo coverage of an area 60 miles wide and 2,000 miles long from 70,000 feet altitude. Ground resolution varies

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Six flights have been made to date. Several design improvements have been incorporated in the Iris II camera as a result of these flights.

2. Current Status:

Thirteen cameras are being procured under this contract; 6 for CIA, 6 for SAC and 1 to be held as back-up. The first camera is scheduled for delivery 13 December and the next 4 at a rate of 1 per month, with the balance at a rate of 2 per month. The first 4 cameras will be accepted at Det. G on the basis of flight test performance and the balance will be accepted at the contractor's plant on the basis of laboratory tests. The first four cameras will go to CIA, Number 5 to SAC, 6 to CIA, 7 to SAC and 8 to CIA. The balance to SAC except Number 13 which goes into ready storage at Detachment G. Ground support equipment in varying quantities to support SAC and CIA peculiar requirements is being procured in accordance with the attached schedule. All procurements are currently on schedule. The first window frame produced by Itek's subcontractor was improperly heat treated and consequently warped during machining. Corrective action has been taken and three window assemblies will be delivered to Lockheed on 6, 13, and 27 December respectively. All specifications for contract end items, interface areas and

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acceptance test exhibits have been approved. Contractor at present expenditure rate is below projected budget since no unforeseen contingencies have arisen that would require additional engineering time for solution.

3. Flight Test:

At least 4 flights will be required for acceptance of the first four articles, possibly as many as 6 for the first one. Since the camera is very critical to pressure, refocusing of the camera may be required to coincide with the actual Q-bay pressure encountered. It is desirable to flight check the cameras scheduled for delivery to SAC prior to release.

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Attachment -

As noted

SSD/R&D/OSA/

SSD/R&D/OSA/[]:bjg

Distribution:

- Cy 1 - DD/SA
- 2 - D/R&D/OSA
- 3 & 4 - D/M/OSA
- 5 - IDEA/O/OSA
- 6 - D/O/OSA
- 7 - CMD/COMPT/OSA []
- 8 - COMPT/OSA []
- 9 - SSD/R&D/OSA
- 10 - SSD/R&D Chrono
- 11 - RB/OSA w/o att

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